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<u>L16</u>	(surfactant or surface active) with (silicone or siloxane or silane)	28394	<u>L16</u>
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Synonyms: alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxy-1,2-ethanediyl); Glycols, polyethylene, mono((1,1,3,3-tetramethylbutyl)phenyl)ether; Polyethylene Glycol p-tert-Octylphenyl Ether; Scintillation surfactant; Triton; Triton X 114;

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9036-19-5

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Used for solubilization of proteins in preparation for gel electrophoresis. For use as a surfactant in liquid scintillation counting.

More information about the chemical is available in these categories:

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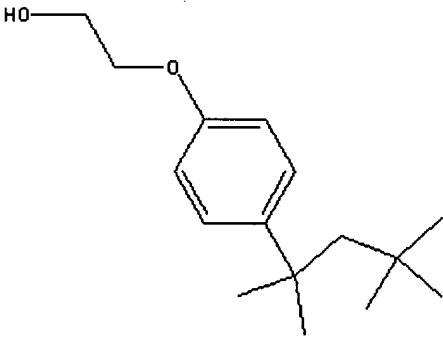
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**Triton(R) X-100 [9002-93-1]**

Synonyms: p-(1,1,3,3-Tetramethylbutyl)phenol ethoxylate; alpha-[4-(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxy-1,2-ethanediyl); Alkylaryl polyether alcohol; Ethylene glycol octyl phenyl ether; Octoxinol; Octoxynol-10; Octoxynol-3; Octoxynol-30; Octyl phenol ethoxylate; Octylphenoxypolyethoxyethanol; POE (10) octylphenol; POE(10) Octyl Phenyl Ether; POE(30) Octyl Phenyl Ether; POE(3) Octyl Phenyl Ether; Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl] ether; Polyoxyethylated octyl phenol; polyoxyethylene (10) octylphenol; Poly(oxyethylene)-p-tert-octylphenyl ether; Polyoxyethylene octyl phenyl ether; POE octylphenol; Triton(R) X-100; Triton X 100; Triton X-100 Surfactant; Triton X 102;

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Formula	C <sub>16</sub> H <sub>26</sub> O <sub>2</sub>	Molecular Weight	250.3802
CAS RN	9002-93-1	Melting Point (°C)	-4
ACX Number	X1001230-3	Boiling Point (°C)	120
Density	1.084	Vapor Density	21
Refractive Index		Vapor Pressure	0
Evaporation Rate	1	Water Solubility	
Flash Point (°C)	274	EPA Code	
DOT Number		RTECS	MD0907700
Comments	Used for solubilization of proteins. Colorless liquid. Wetting agent; penetrating agent; hydrophilic emulsifier.		

More information about the chemical is available in these categories:

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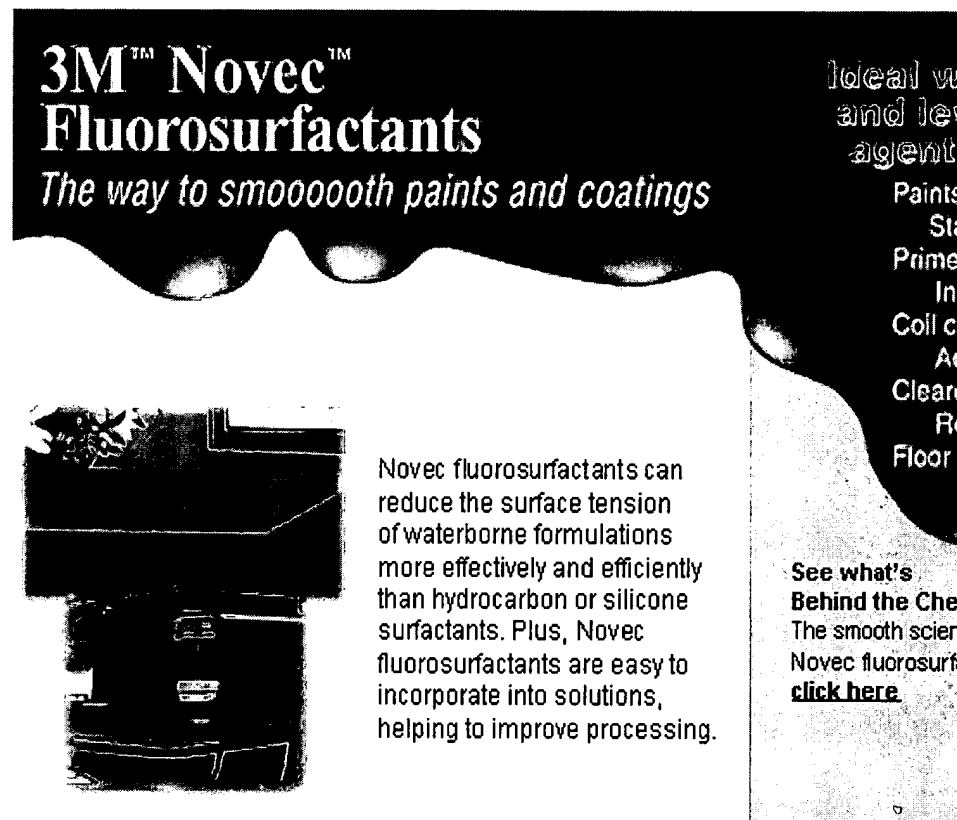
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・ Astraware製品 2 タイトル新発売

・ RedMercury製品 4 タイトル発売開始

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ました。

MissingSync MacOSX 10.3.5の環境におけるクラッシュ問題  
の  
対策アップデートのご案内を追加しました。

**【重要】** MissingSync MacOSX 10.3.5の環境において重大な  
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MissingSync動作環境にPalmDesktopソフトウェア2.6.3ダウンロード用  
アドレスを追加しました。

- ・ 新モデルTJ37/TH55をMissingSync互換性リストに追加しました。

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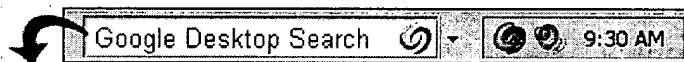
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**Unidyne™** for Carpets, Applications. TG-3010, Carpet protection. TG-3020, Carpet protection. ... TG-3720, Carpet protection. Copyright © 2005 **Daikin** America, Inc.

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Investments followed to manufacture **Unidyne** in 2000 and expand the capacity of the original plant. At **Daikin** America, we understand that reliable ...

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... 3. D) MSDSs From ... Medical products **Daikin Unidyne** ... URL: <http://www.msdssearch.com/./ManuflinksD.htm> Pagesize: 45K bytes - Language: English [Translate]. ...

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**MSDS TG-3020**

... SECTION 1 PRODUCT IDENTIFICATION. **DAIKIN** TRADE NAME, **UNIDYNE** TG-3020.  
FEATURE AND APPLICATION, Dry soil resistant agent for carpets. TECHNICAL  
BULLETIN No. ...

www.daikinchem.com.cn/pro/ sinsozai/unidyne\_org/MSDS/TG-3020e.html - 12k -  
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**MSDS TG-590**

... SECTION 1 PRODUCT IDENTIFICATION. **DAIKIN** TRADE NAME, **UNIDYNE** TG-590.  
FEATURE AND APPLICATION, Water and Oil Repellent for textiles. TECHNICAL  
BULLETIN No. ...

www.daikinchem.com.cn/pro/ sinsozai/unidyne\_org/MSDS/TG-590e.html - 13k -  
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UNIDYNE DAIKIN

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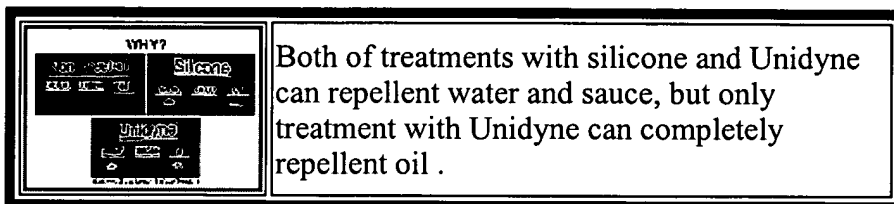
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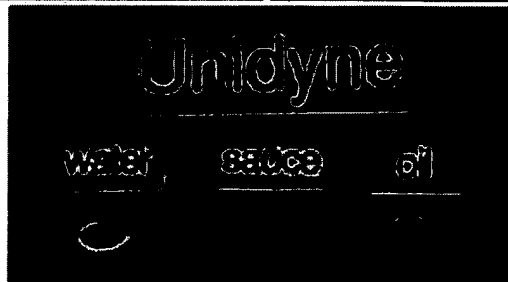
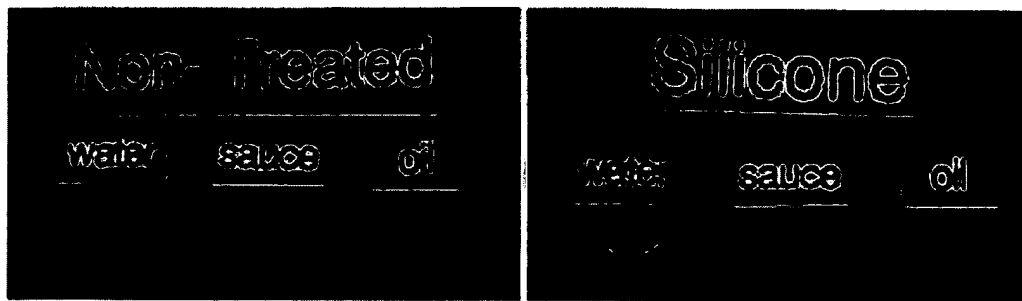
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**Daikin Industries**

Manufacturer

Japan

Daikin has developed various fluorocarbon gases, fluoro-polymers, elastomers, repellants, and other materials containing fluorine using innovative technology.

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Business Info.

United States

Serving the global adhesives formulator, manufacturer, and applicator.

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3. ... **News Item : Daikin**... to ensure safety as **Daikin** worked to restore ... Tile WallsCeilings WorldTrade Breaking News**Daikin** Fluoropolymer Plant Resumes Operations **Daikin** ...URL: [http://www.adhesivesmag.com/CDA/ArticleInformation/news/news\\_item/0,2108,14...](http://www.adhesivesmag.com/CDA/ArticleInformation/news/news_item/0,2108,14...)4. **News**... Receives Prestigious Intel SCQI Award **Daikin** Fluoropolymer Plant Resumes Operations Fusion ...URL: [http://www.adhesivesmag.com/CDA/ArticleInformation/news/News\\_Index/1,2107,...](http://www.adhesivesmag.com/CDA/ArticleInformation/news/News_Index/1,2107,...)**ACHEMA**

Event

Germany

19. - 24. Mai 2003. With almost 4,000 exhibitors from all over the world and a quarter of a million visitors from more than 100 countries, ACHEMA will be setting the standard again in the year 2003 and pointing the way for the future in the process

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**Popular s**

**CPhI**

Event

Netherlands

8-10 october 2001. CPhI Worldwide, the international exhibition on pharmaceutical ingredients and intermediates, has proven its world leading position with a total of 951 exhibiting companies and 15,454 visits in total.

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Business Info.

United States

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... help the Dow Corning-**DAIKIN** collaboration succeed. **DAIKIN INDUSTRIES, LTD.**, is a ... Dow Corning and ...

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**Japan Tobacco**

Manufacturer

Japan

Moving to a Tri-Pillar business of tobacco, pharmaceuticals and foods.

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**9. 03**

... the company and **Daikin Industries, Ltd. (Daikin)** (TSE: 6367), a global ... this in mind, ...

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**Tri-iso**

Distributor

United States

Tri-iso is a distributor and sales agent of specialty chemical raw materials.

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File: PGPB

May 26, 2005

DOCUMENT-IDENTIFIER: US 20050112810 A1

TITLE: Method for manufacturing conductive pattern forming body

Detail Description Paragraph:

[0172] Examples of such a decomposable material may include surfactants which are decomposed by an action of the photocatalyst and has a function to change the wettability of the surface of the photocatalyst containing layer by being decomposed. Specifically, nonionic surfactants of hydrocarbon types such as each series of NIKKOL BL, BC, BO and BB manufactured by Nikko Chemicals Co., Ltd., fluorine types such as ZONYL FSN and FSO manufactured by Du Pont Kabushiki Kaisha, SURFLON S-141 and 145 manufactured by Asahi Glass Company, MEGAFACE F-141 and 144 manufactured by Dainippon Ink and Chemicals, Incorporated, FTARGET F-200 and F251 manufactured by NEOS Co., Ltd., UNIDYNE DS-401 and 402 manufactured by DAIKIN INDUSTRIES, LTD., and FLUORAD FC-170 and 176 manufactured by 3M, and silicone type surfactants can be listed. Cationic surfactants, anionic surfactants and amphoteric surfactants may also be used.

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Tego Coating & Ink Add

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Chinese China chemical industry --> product data --> chemical additive



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The superficial control helps the medicinal preparation (TEGO Glide&Flow)

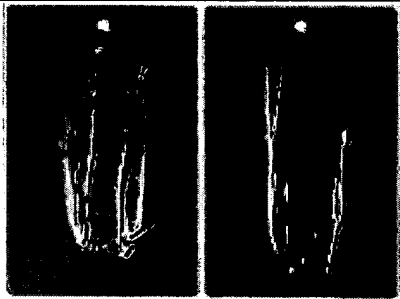
Defoamer (TEGO Foamex)

脱泡 medicinal preparation (TEGO Airex)

Response surface control agent (TEGO Rad)

Base material wetting agent (TEGO Wet)

Dispersing agent (TEGO Dispers)

		Base material wetting agent (TEGO Wet)				The base material wetting agent can help the coating or the printing ink moist each kind of different surface, even moi extremely low surface tension base material. Therefore can prevent like the shrink hole or will shrink side and so on surface defect, varnish film class even and attaches the st is also improved.	
产品	体系	木器涂料	塑料涂料	金属涂料	印刷油墨与清漆	特点	
Wet 250	W		●	●		The good class is even	
Wet 260	W		●	●	●	General	
Wet 265	W	●				Lowly steadily soaks	
Wet 270	W / S / UV	●	●	●	●	Strongly guards against the shrink hole	
Wet 280	W		●	●		Reduces the varnish film thickness	
Wet 500 <sup>2</sup>	W / UV	●		●	●	Damps soaks, is high dynamically	
Wet 505 <sup>12</sup>	W	●		●	●	消泡, the pigment is moist	
Wet 510 <sup>12</sup>	W	●	●	●	●	Lowly steadily soaks, is high dynamically	
Wet 590 <sup>2</sup>	W				●	Flows evenly, is moist	
Wet KL245	W / S / UV	●	●	●	●	Strongly guards against the shrink hole	
Twin 4000 <sup>1</sup>	W / S / UV	●	●	●	●	Strong wettability and 消泡 sex	

<sup>1</sup> New product <sup>2</sup> Does not have silicon W = river character system S = solvent system UV = the UV solidifica



system

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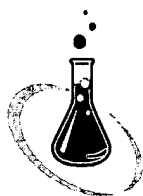
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Hong Kong Chinese China chemical industry product limited company (Honour Chem)

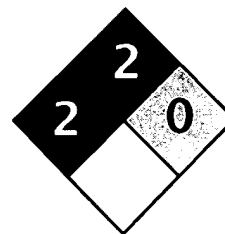


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Health	2
Fire	2
Reactivity	0
Personal Protection	H

## Material Safety Data Sheet TRITON X-114 MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** TRITON X-114

**Catalog Codes:** SLT3745

**CAS#:** 9036-19-5

**RTECS:** MD0907600

**TSCA:** TSCA 8(b) inventory: TRITON X-114

**CI#:** Not applicable.

**Synonym:** Octylphenoxypoly(ethoxyethanol)

**Chemical Name:**

Poly(oxy-1,2-ethanediyl),a[(1,1,3,3-tetramethylbutyl)phenyl]-w-h

**Chemical Formula:** C<sub>8</sub>H<sub>16</sub>C<sub>6</sub>H<sub>4</sub>(-CH<sub>2</sub>CH<sub>2</sub>O)<sub>10</sub>H

**Contact Information:**

**Sciencelab.com, Inc.**

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

**CHEMTREC (24HR Emergency Telephone), call:**

1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	% by Weight
Ethylene oxide	75-21-8	0-0.1

**Toxicological Data on Ingredients:**

### Section 3: Hazards Identification

**Potential Acute Health Effects:**

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of skin contact (permeator), of inhalation. Slightly hazardous in case of skin contact (sensitizer). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects:**

Very hazardous in case of skin contact (irritant), of ingestion.

Hazardous in case of skin contact (permeator), of eye contact (irritant), of inhalation.

Slightly hazardous in case of skin contact (sensitizer).

**CARCINOGENIC EFFECTS:** Classified A2 (Suspected for human.) by ACGIH [TRITON X-114].

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** Not available.

The substance is toxic to blood, kidneys, liver.  
Repeated or prolonged exposure to the substance can produce target organs damage.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** Combustible.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** CLOSED CUP: 93.3°C (199.9°F).

**Flammable Limits:** Not available.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:**

Flammable in presence of open flames and sparks, of oxidizing materials.

Slightly flammable to flammable in presence of heat, of reducing materials, of combustible materials.

Non-flammable in presence of moisture.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Keep container tightly closed. Material supports combustion.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

### Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill:

Combustible material.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7: Handling and Storage

### Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

### Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Liquid. (Clear viscous liquid.)

**Odor:** Characteristic. (Slight.)

**Taste:** Not available.

**Molecular Weight:** Not applicable.

**Color:** Colorless.

**pH (1% soln/water):** 7 [Neutral.]

**Boiling Point:** Not available.

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** 1.07 (Water = 1)

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** The product is equally soluble in oil and water.

**Ionicity (in Water):** Non-ionic.

**Dispersion Properties:** See solubility in water, methanol, diethyl ether, n-octanol.

**Solubility:**

Easily soluble in hot water, diethyl ether.

Soluble in methanol.

Partially soluble in cold water, n-octanol.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:**

Reactive with oxidizing agents, acids, alkalis.

Slightly reactive to reactive with reducing agents, organic materials, metals.

Non-reactive with moisture.

**Corrosivity:**

Slightly corrosive to corrosive in presence of steel.

Non-corrosive in presence of glass, of aluminum, of zinc, of copper, of stainless steel(304), of stainless steel(316).

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** No.

## Section 11: Toxicological Information

**Routes of Entry:** Dermal contact. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 1800 mg/kg [Rat.].

**Chronic Effects on Humans:**

CARCINOGENIC EFFECTS: Classified A2 (Suspected for human.) by ACGIH [TRITON X-114].

The substance is toxic to blood, kidneys, liver.

**Other Toxic Effects on Humans:**

Very hazardous in case of skin contact (irritant), of ingestion.  
Hazardous in case of skin contact (permeator), of inhalation.  
Slightly hazardous in case of skin contact (sensitizer).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** May contain traces of ethylene oxide . Ethylene oxide has been reported to be a potential carcinogen.

**Special Remarks on other Toxic Effects on Humans:** May cause allergic reactions, exzema and/or dehydration of the skin.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

## Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## Section 15: Other Regulatory Information

**Federal and State Regulations:**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Ethylene oxide

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Ethylene oxide

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Ethylene oxide

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene oxide

Pennsylvania RTK: Ethylene oxide

Florida: Ethylene oxide

Minnesota: Ethylene oxide

Massachusetts RTK: Ethylene oxide

New Jersey: Ethylene oxide

TSCA 8(b) inventory: TRITON X-114

SARA 302/304/311/312 extremely hazardous substances: Ethylene oxide

SARA 313 toxic chemical notification and release reporting: Ethylene oxide

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):** CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL (EEC):**

This product is not classified according to the EU regulations.

**HMIS (U.S.A.):**

**Health Hazard:** 2

**Fire Hazard:** 2

**Reactivity:** 0

**Personal Protection:** h

**National Fire Protection Association (U.S.A.):**

**Health:** 2

**Flammability:** 2

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves.

Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

## Section 16: Other Information

**References:** -Manufacturer's Material Safety Data Sheet.

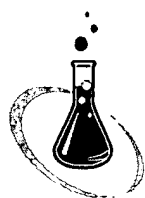
**Other Special Considerations:** Not available.

**Created:** 10/10/2005 08:31 PM

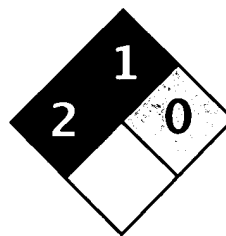
**Last Updated:** 10/10/2005 08:31 PM

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Chemicals & Laboratory Equipment



Health	2
Fire	1
Reactivity	0
Personal Protection	J

## Material Safety Data Sheet TRITON X-100 MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** TRITON X-100

**Catalog Codes:** SLT2452

**CAS#:** 9002-93-1

**RTECS:** MD0907700

**TSCA:** TSCA 8(b) inventory: TRITON X-100

**CI#:** Not available.

**Synonym:** Polyethylene glycol octylphenyl ether;  
Octylphenoxypolyethoxyethanol; Polyethylene glycol mono  
[4-(1,1,3,3-tetramethylbutyl) phenyl] ether

**Chemical Name:** Triton X-100

**Chemical Formula:** (C<sub>2</sub>H<sub>4</sub>-O)<sub>n</sub>C<sub>14</sub>-H<sub>22</sub>-O

#### Contact Information:

**Sciencelab.com, Inc.**

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

**CHEMTREC (24HR Emergency Telephone), call:**  
1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Weight
TRITON X-100	9002-93-1	100
May contain trace amounts of Ethylene Oxide		

**Toxicological Data on Ingredients:** TRITON X-100: ORAL (LD50): Acute: 1800 mg/kg [Rat].

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

#### Potential Chronic Health Effects:

**CARCINOGENIC EFFECTS:** Classified 4 (No evidence.) by NTP, None. by OSHA, None. by NIOSH.

**MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** Classified Reproductive system/toxin/female [POSSIBLE].

Repeated or prolonged exposure is not known to aggravate medical condition.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**Skin Contact:**

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** CLOSED CUP: 274°C (525.2°F).

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>) and water.

**Fire Hazards in Presence of Various Substances:**

Slightly flammable to flammable in presence of heat.

Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

#### Section 6: Accidental Release Measures

**Small Spill:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Section 7: Handling and Storage****Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, reducing agents.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. It may be light and air sensitive

**Section 8: Exposure Controls/Personal Protection****Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

**Section 9: Physical and Chemical Properties**

**Physical state and appearance:** Liquid.

**Odor:** Odorless.

**Taste:** Not available.

**Molecular Weight:** 646.85 g/mole

**Color:** Clear Colorless to light yellow.

**pH (1% soln/water):** Not available.

**Boiling Point:** 270°C (518°F)

**Melting Point:** 6°C (42.8°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 1.06 (Water = 1)

**Vapor Pressure:** <0.1 kPa (@ 20°C)

**Vapor Density:** Not available.

**Volatility:** <0.5% (v/v).

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Non-ionic.

**Dispersion Properties:** See solubility in water.

**Solubility:**

Soluble in cold water, hot water.

Insoluble in mineral spirits and kerosene

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, light, air, moisture, incompatible materials.

**Incompatibility with various substances:** Reactive with oxidizing agents, reducing agents.

**Corrosivity:** Not considered to be corrosive for metals and glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Dermal contact. Eye contact.

**Toxicity to Animals:** Acute oral toxicity (LD50): 1800 mg/kg [Rat].

**Chronic Effects on Humans:**

CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA, None. by NIOSH.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells.

DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE].

**Other Toxic Effects on Humans:**

Hazardous in case of ingestion, of inhalation.

Slightly hazardous in case of skin contact (irritant).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

May cause adverse reproductive effects (maternal effects) based on animal data (high oral doses of 65,500 mg/kg given to female rat prior to mating).

May affect genetic material (mutagen).

The product may contain trace amounts of Ethylene Oxide which can cause cancer and birth defects or other adverse reproductive effects.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

Skin: May cause skin irritation.

Eyes: Causes severe eye irritation.  
Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.  
Inhalation: May cause respiratory tract irritation.  
The toxicological effects of this substance have not been fully investigated.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## Section 15: Other Regulatory Information

**Federal and State Regulations:**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide

TSCA 8(b) inventory: TRITON X-100

TSCA 8(a) IUR: TRITON X-100

TSCA 8(d) H and S data reporting: TRITON X-100: Effective: 3/29/96; Sunset: 3/39/06

**Other Regulations:** Not available.

**Other Classifications:**

**WHMIS (Canada):** CLASS D-2B: Material causing other toxic effects (TOXIC).

**DSCL (EEC):**

R22- Harmful if swallowed.

R41- Risk of serious damage to eyes.

S26- In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice.

S39- Wear eye/face protection.

**HMIS (U.S.A.):**

**Health Hazard:** 2

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** j

**National Fire Protection Association (U.S.A.):**

**Health:** 2

**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Not applicable.

Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

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